

Table 1: Validity and reliability values of the three Hammer devices analysed.

HAMMER 1										HAMMER 2										HAMMER 3									
SRM (W)		Hammer (W)		SEM	ICC	Bland Altman		SRM (W)		Hammer (W)		SEM	ICC	Bland Altman		SRM (W)		Hammer (W)		SEM	ICC	Bland Altman							
Mean SD	CV	Mean SD	CV			r value	Bias	SD Bias	Mean SD	CV	Mean SD	CV		r value	Bias	SD Bias	Mean SD	CV	Mean SD	CV	r value			Bias	SD Bias				
100 W	94±5	5.0%	100±1*	1.4%	1.4	0.999	LoA 3.7 to 10.7	3.5	101±3	3.3%	101±1	0.5%	1.0	0.999	LoA -8.7 to 2.9	102±5	4.4%	101±1	1.0%	1.4	0.999	LoA -8.8 to 3.2	-2.8	3.0					
150 W	143±3	2.3%	150±1*	0.5%	1.0				153±4	2.3%	150±1	0.5%	1.0			-2.9	2.9	152±4	2.5%	151±1	0.6%	1.1							
70 CAD	200 W	196±4	1.8%	200±1*	0.7%	1.1			202±3	1.7%	201±1	0.3%	1.0			203±4	2.1%	201±2	0.8%	1.3									
250 W	243±3	1.3%	251±1	0.5%	1.0	253±3			1.4%	251±1	0.3%	1.0	254±5			1.8%	251±2	0.6%	1.4										
300 W	299±4	1.3%	301±1	0.3%	1.1	304±4			1.2%	300±1	0.3%	1.1	305±4			1.3%	301±2	0.6%	1.2										
350 W	352±4	1.1%	350±2	0.5%	1.2	358±4			0.7%	350±1*	0.3%	0.8	357±4*			1.1%	351±2*	0.4%	1.2										
100 W	95±5	4.9%	101±1*	0.9%	1.4	0.999	LoA 3.5 to 11.1	3.8	104±2	2.1%	101±1	0.9%	0.7	0.999	LoA -9.1 to 0.9	104±5	4.7%	101±1	0.7%	1.5	0.999	LoA -9.6 to 3.9	-2.9	3.4					
150 W	143±4	3.0%	151±1*	0.7%	1.3				153±3	1.9%	150±1	0.4%	0.9			-4.1	2.5	151±5	3.3%	151±1	0.7%	1.5							
85 CAD	200 W	196±3	1.7%	200±1*	0.4%	1.0			205±3	1.4%	201±1	0.3%	0.9			203±5	2.6%	201±1	0.6%	1.6									
250 W	247±4	1.5%	250±1	0.3%	1.1	254±3			1.1%	251±1	0.2%	0.8	254±4			1.7%	252±2	0.7%	1.3										
300 W	298±4	1.3%	301±1	0.2%	1.2	306±3			0.8%	301±1*	0.4%	0.8	306±5			1.7%	302±2	0.7%	1.6										
350 W	350±5	1.3%	350±2	0.6%	1.3	357±3			0.9%	350±1*	0.1%	0.9	357±5*			1.4%	353±2*	0.6%	1.6										
100 W	88±8	9.5%	101±1*	1.0%	2.5	0.998	LoA 3.6 to 22.8	9.6	101±4	3.6%	101±1	1.1%	1.1	0.999	LoA -6.8 to 3.6	99±5	4.6%	101±1	0.52%	1.4	0.998	LoA -5.9 to 6.7	-0.4	3.2					
150 W	139±7	5.0%	151±2*	1.2%	2.1				150±4	2.4%	150±1	0.8%	1.1			-1.6	2.6	148±5	3.2%	151±1	0.51%	1.4							
100 CAD	200 W	189±7	3.6%	201±2*	0.8%	2.0			203±4	2.0%	201±2	0.8%	1.2			200±5	2.6%	200±1	0.45%	1.5									
250 W	241±6	2.5%	250±1*	0.5%	1.8	253±4			1.6%	251±1	0.4%	1.3	251±5			2.2%	251±1	0.51%	1.6										
300 W	292±7	2.2%	300±1	0.2%	2.0	302±4			1.4%	300±1	0.3%	1.2	302±5			1.8%	302±2	0.69%	1.6										
350 W	347±3	0.8%	350±2	0.4%	0.8	355±4			1.1%	350±2	0.4%	1.2	355±4			1.2%	352±2	0.63%	1.3										
250 w FC-S	248±7	2.8%	249±1	0.6%	2.1	0.996	LoA 10.5 to 10.8	0.1	256±7	2.6%	249±2	0.7%	2.0	0.996	LoA -17.3 to 6.9	253±4	1.6%	251±2	0.7%	1.3	0.997	LoA -11.5 to 5.5	-3.2	4.3					
350 w FC-S	350±7	2.1%	350±2	0.6%	2.2				353±4	1.6%	352±2	0.6%	1.7			354±6	1.8%	352±2	0.4%	1.9									
450 w FC-S	452±8	1.8%	450±3	0.6%	2.4				456±9	2.1%	449±2	0.5%	2.8			455±6	1.3%	450±1	0.2%	1.7									
500 w FC	492±9	1.9%	496±5	1.0%	2.8				504±7	1.3%	499±3	0.7%	2.0			501±7	1.4%	499±2	0.4%	2.2									

CAD = Cadence; FC-S = Free cadence standing; SD = Standard Deviation; CV = Coefficient of variation; SEM = Standard error of the mean; ICC = Intraclass correlation coefficient; LoA = 95% Limits of Agreement; * Significant differences compared to the SRM device ($p < 0.05$).